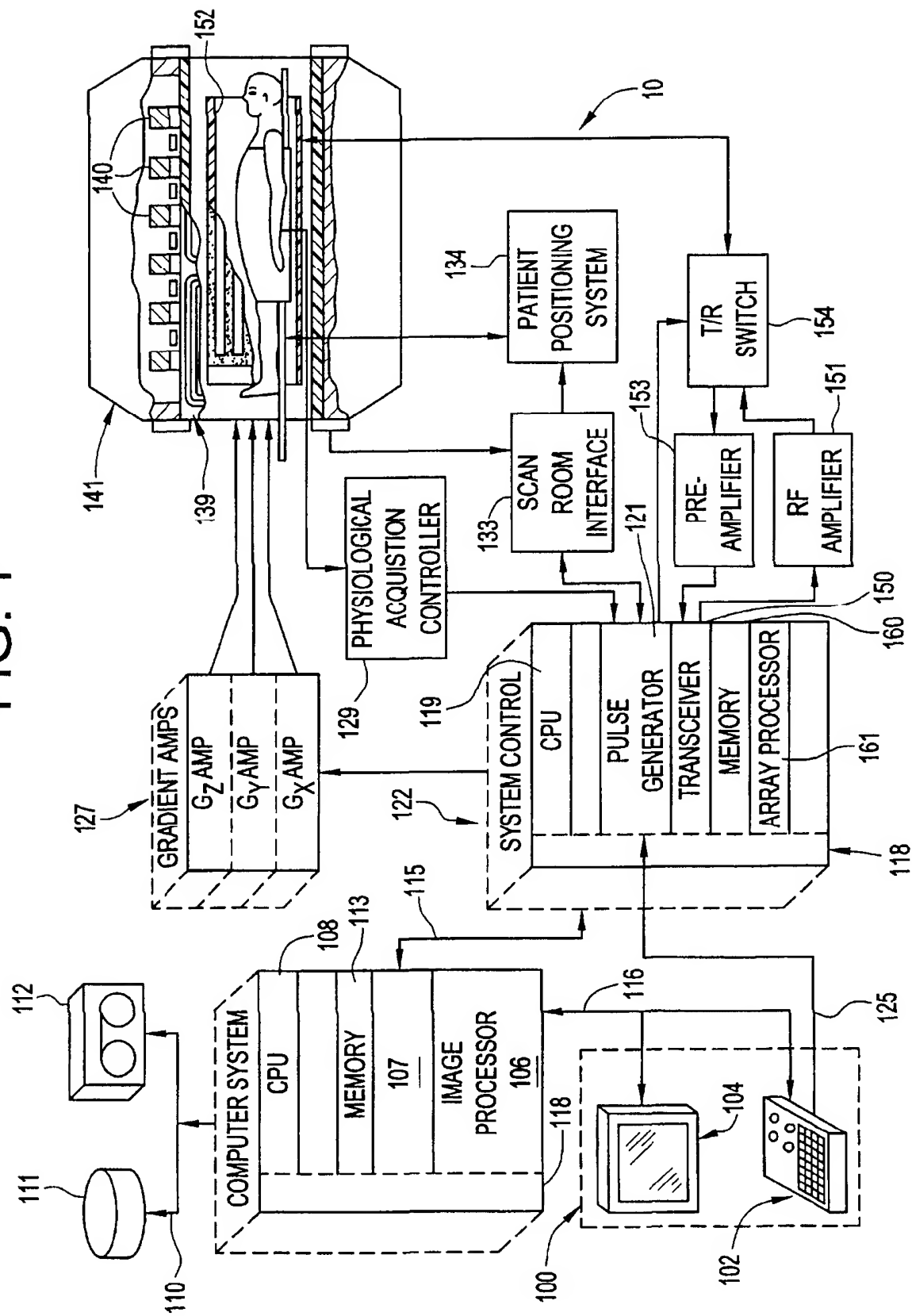


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FIG. 1

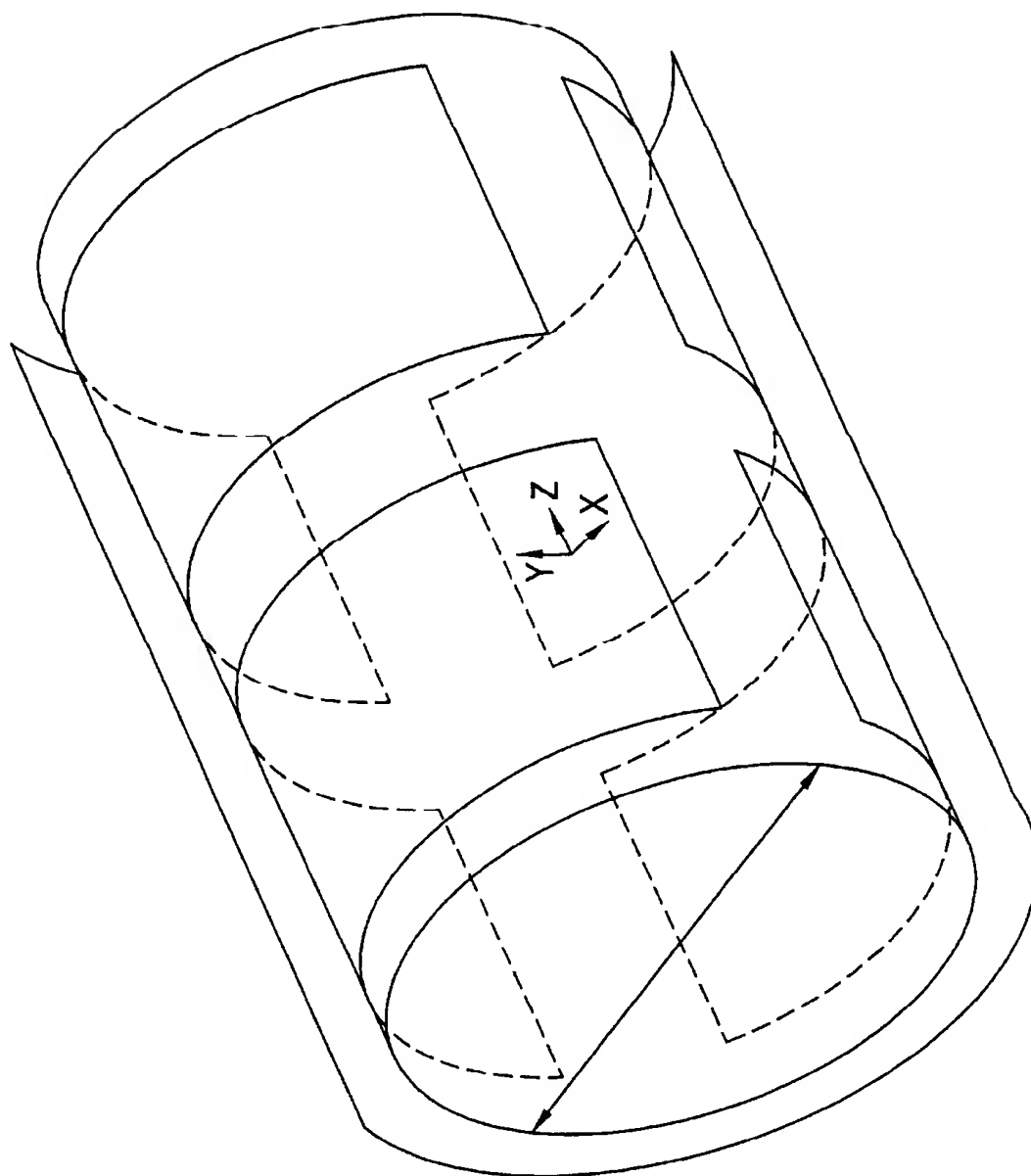


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FIG. 2



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FIG. 3

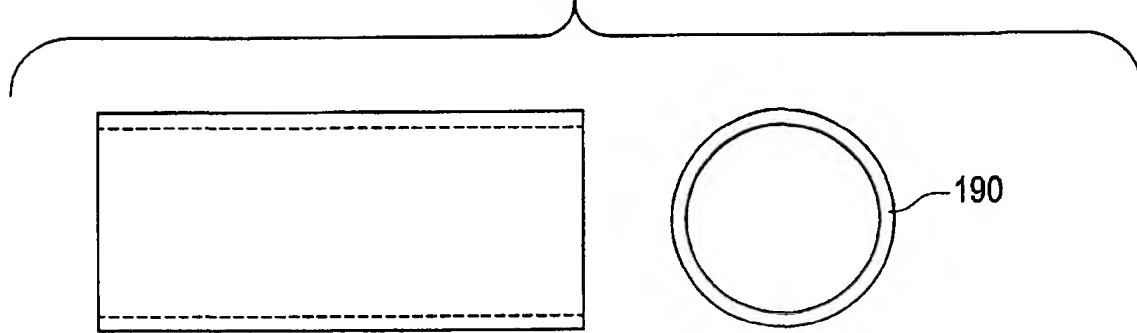


FIG. 4

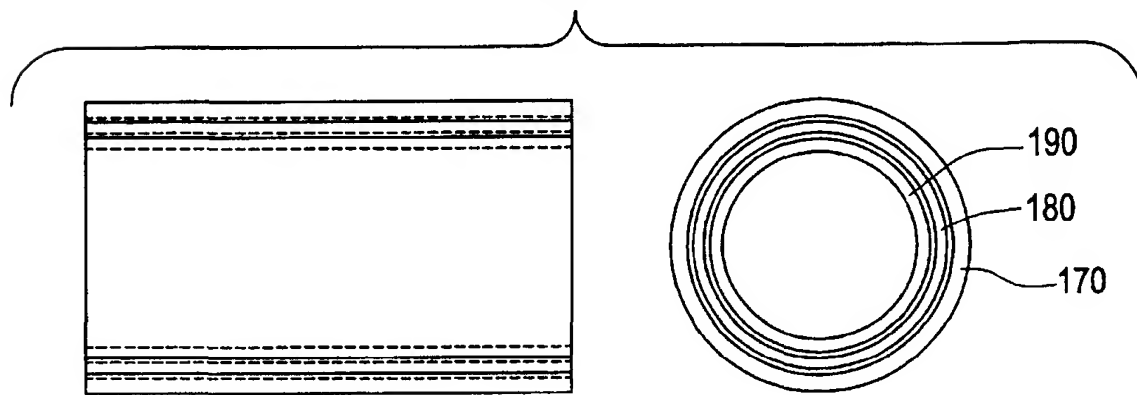


FIG. 5

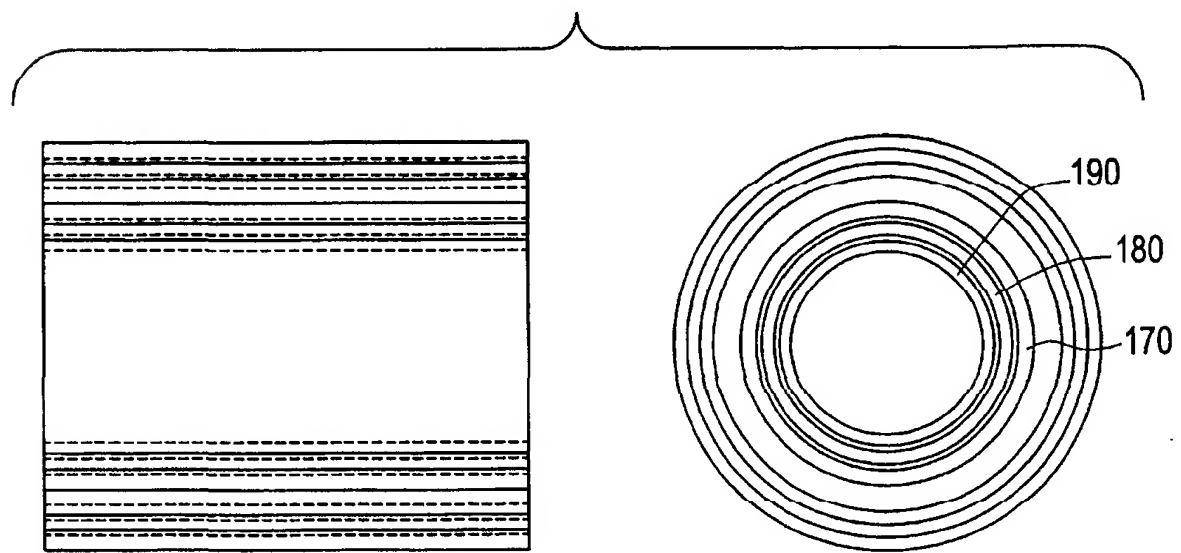
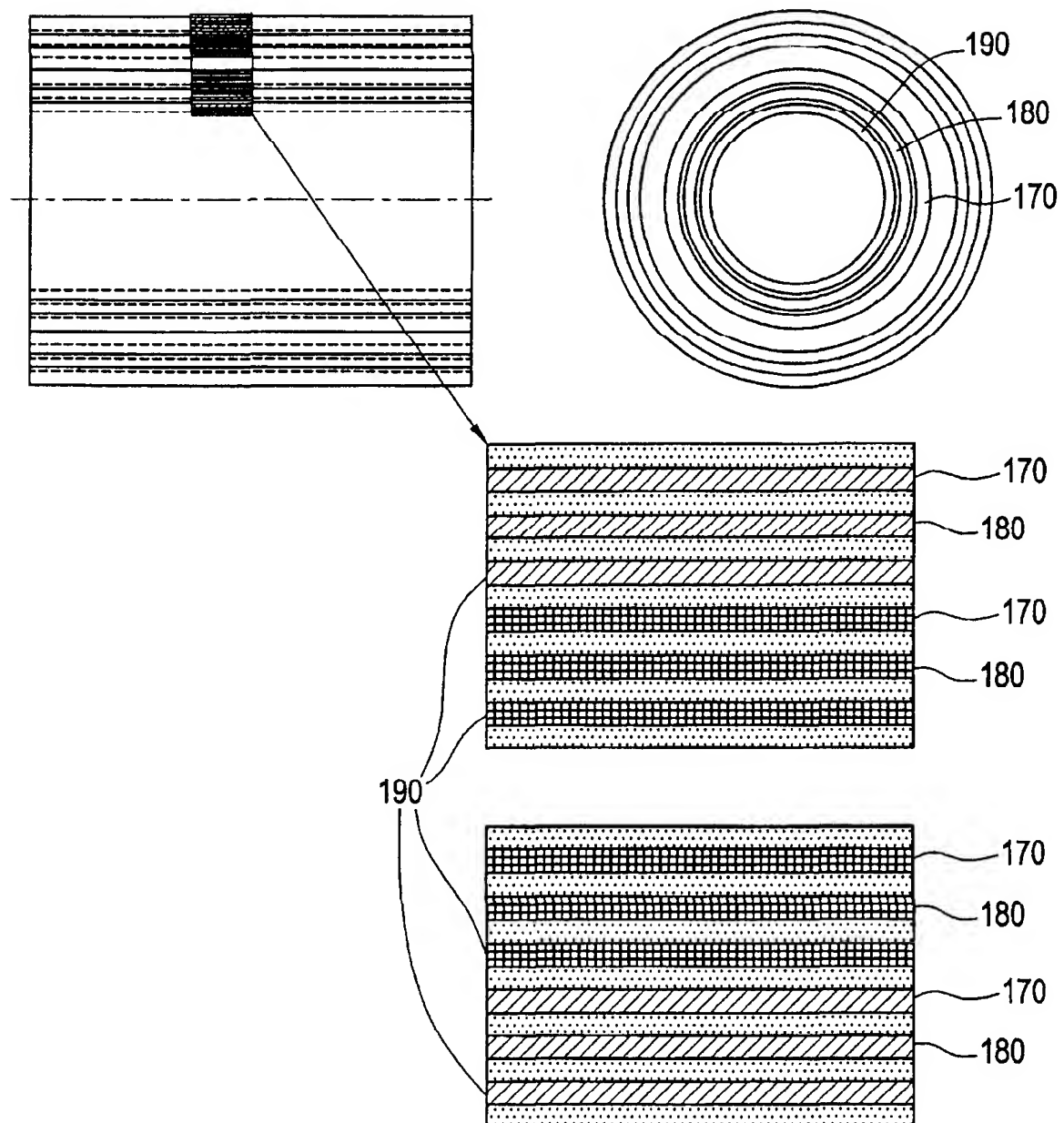


FIG. 6



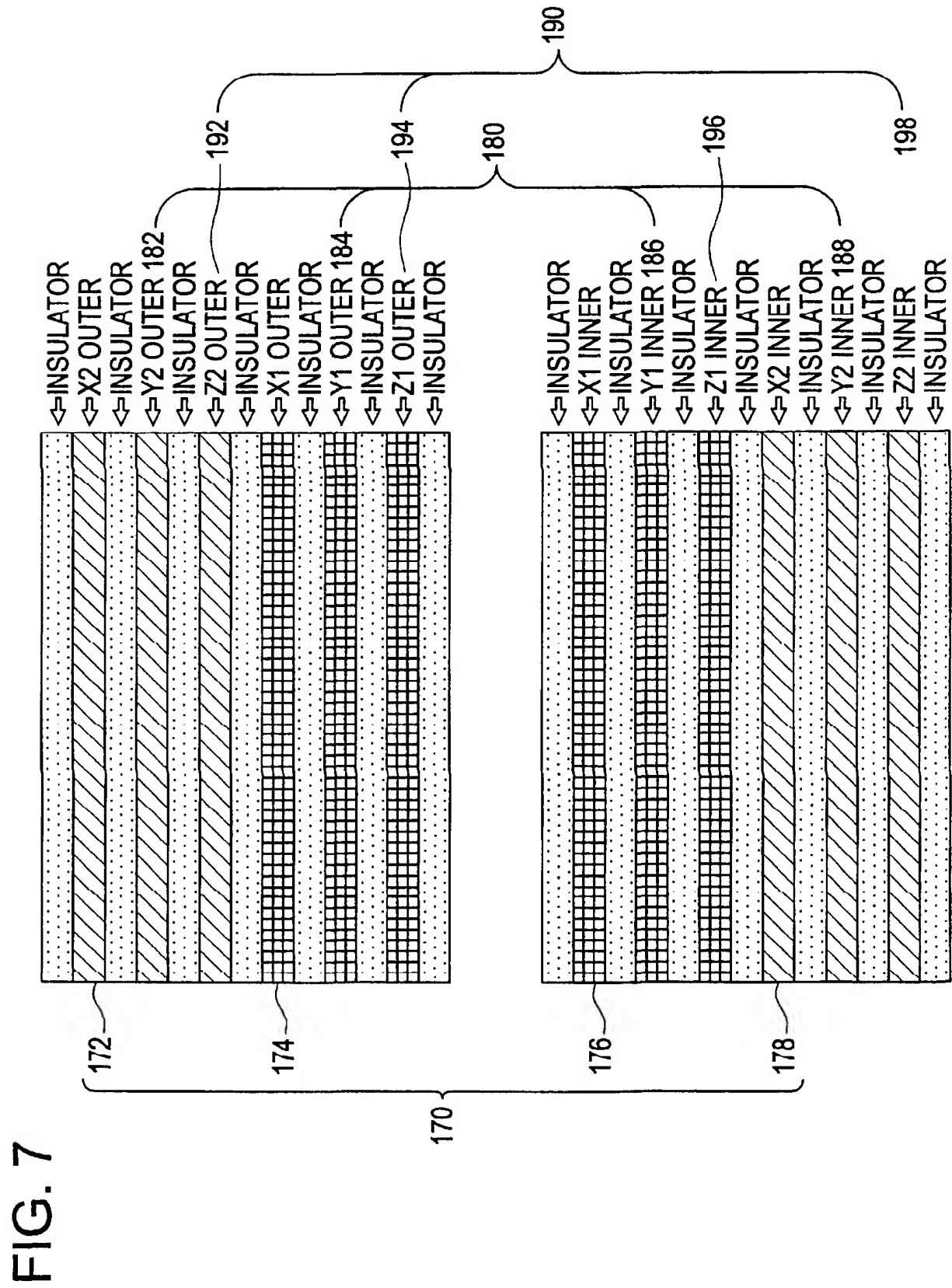
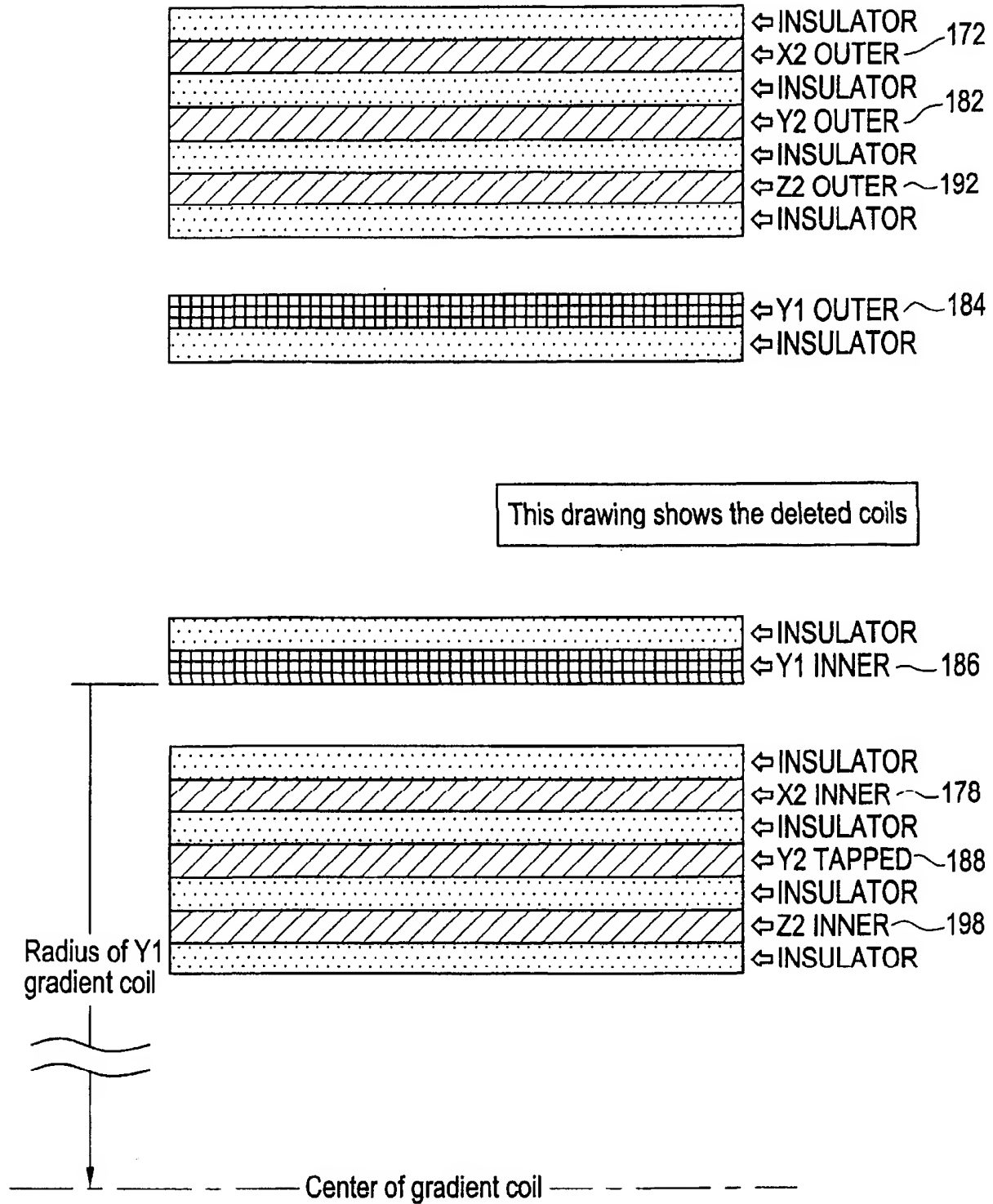


FIG. 8

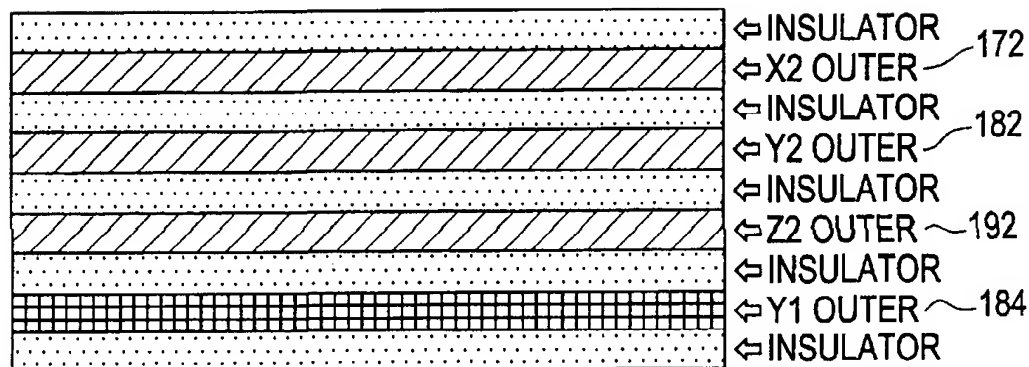


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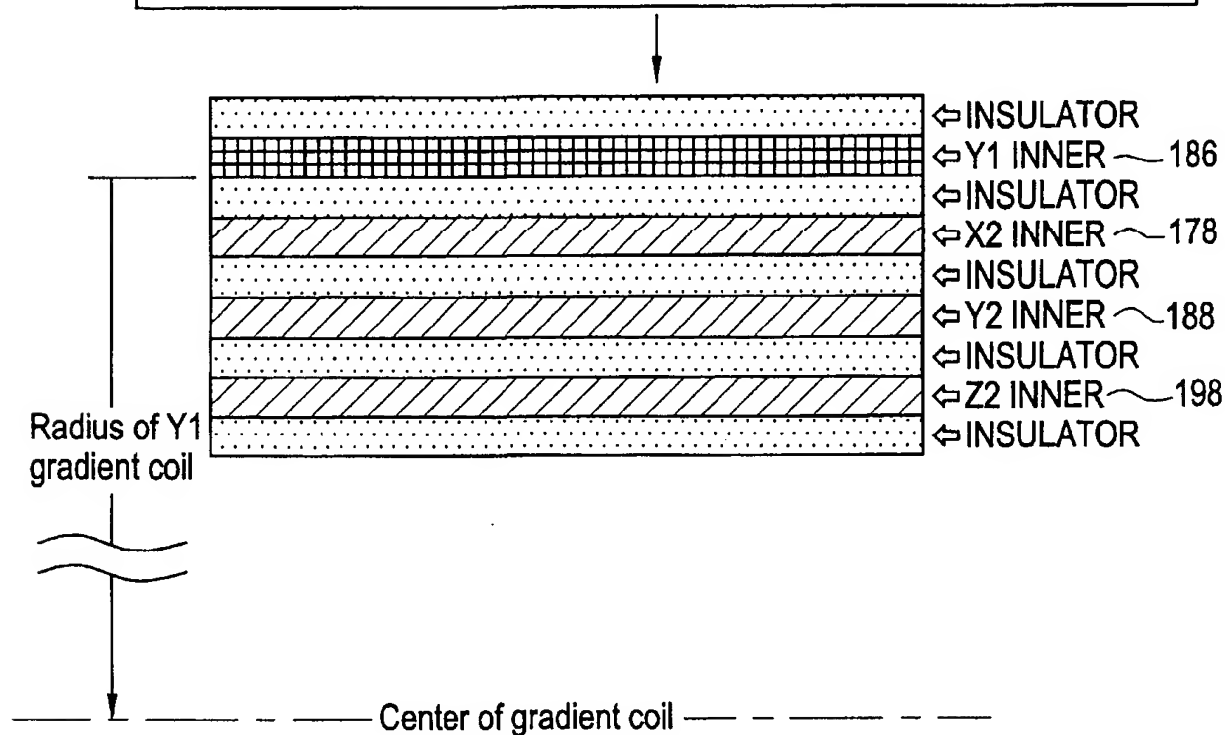
FIG. 9



This drawing shows the Y1 axis coil position moved into the newly available space.

Reducing the Y1 axis inner coil diameter substantially increases its efficiency.

Moving the outer Y1 axis coil further away from the inner y axis coil also increases efficiency.



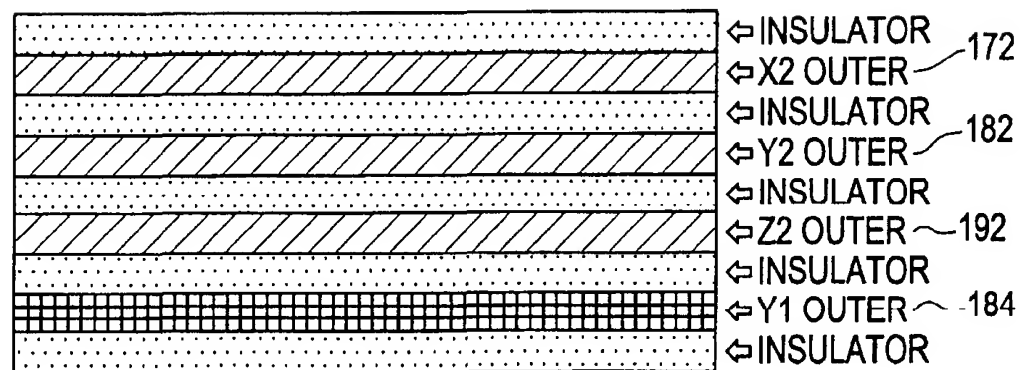
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FIG. 10



If the Y1 axis functionality is obtained by tapping the Y2 axis coil, then a separate inner Y1 axis coil is not needed.

A separate Y1 axis outer coil may still be needed due to the uniquely different fringe field pattern when the Y2 inner axis coil is in tapped mode.

